



Perchlorate Conference

DRAFT AGENDA SUBJECT TO CHANGE

Registration: March 17, 1999 - 2:00p.m. - 5:00p.m. Booth Set Up

Staff: Jo McAndrews
Andrea McAndrews
Trina Serverts

Mary Wallace

Day 1: Thursday, March 18, 1999

7:00 a.m. - 4:30 p.m. Registration

7:30a.m. - 8:15a.m. General Session to Open Conference

Frank Blaha: Project Manager
AWWARF
303-347-6244

Robert Martin: General Manager
East Valley Water District
909-885-4900

Session I

Research and Development

8:30 a.m. - 10:00 a.m.

Perchlorate Health Effects/Toxicity

Moderator: Steve Book: Ph.D. Drinking Water Program
CA. Department of Health Services
916-322-1553

8:30a.m. - 8:55a.m. Results of EPA External Review/

Session II

General Overview of Perchlorate

History of Perchlorate

Moderator: Debbie Brink:
AWWARF
303-347-6244

Overview and History of Perchlorate

Results of February 1999
Annie M. Jarabek
EPA National Center for Environmental Assessment
919-541-4847

Fred Hicks, Ph.D.
AWWARF
703-866-4290

8:55a.m. - 9:20a.m. **Department of Defense**
Dan Rogers (JA)
USAF
937-257-7287

Taking a Pro-Active Approach to Perchlorate
Robert Martin: General Manager
East Valley Water District
909-885-4900

9:20a.m. - 9:45a.m. **Update - Office of Water Regulatory and Policy Activities**
Michael Osinski
USEPA
202-260-6252

Time-line for Perchlorate
Kevin Mayer
USEPA
415-744-2248

9:45a.m. - 10:00a.m. **Q & A**

Q & A

10:00a.m. - 10:15a.m. Break

Research Issues

Community Environmental Concerns

Moderator: Catherine McCracken
Superfund Division Region 9
415-744-2182

Moderator: Kay Brothers
S. Nevada Water Authority
702-258-3176

10:15a.m. - 10:45a.m. **Status and Strategy of Ongoing Health
Effects Studies/March - External Review**
Annie M. Jarabek
EPA National Center for Environmental Assessment
919-541-4847

Colorado River Indian Tribes

10:45a.m. - 11:15a.m. **Ecological Impacts/Transport and Transformation**
Ron Porter
SVWA Lab Manager
702-258-3107

Magna Water Company
Utah Ed Hanson
801-250-2118

11:15a.m. - 11:45a.m.

Analytic Studies
Captain David Tsui
937-255-5150 ex 3183

Quechan Indian Tribe
Fort Yuma Indian Reservation
Earl Hawes, Project Manager
Quechan Environmental Lab Programs
760-572-2577

11:45 a.m. - 12 Noon

Q & A

Q & A

12 Noon - 1:30p.m.

LUNCH

Guest Speaker: Tom P. Stern, Ph.D.
Learning to love Change

2:00p.m. - 5:00p.m. Treatment Research for Drinking Water

Moderator: Bob Martin
East Valley Water District
885-4900

Case Perspectives

Moderator: Zahra Panahi
Riverside Public Utilities
909-782-5780

2:00p.m. - 2:25p.m.

Application of Ion Exchange for Perchlorate
Removal
*Issam Najm, Ph.D.
Montgomery Watson
626-568-6744

EPA
Annie M Jarabek
919-541-4847

2:25p.m. - 2:50p.m.

Perchlorate Biodegradation
Drinking Water, Ground Water, and
Wastewater Applications
Edward Coppola, Applied Research Associates
[REDACTED]

Dan Rogers
USAF
937-257-7287

2:50p.m. - 3:00p.m.

Q & A

Q & A

3:00p.m. - 3:15p.m.

Break

Break

Moderator: Frank Blaha
AWWARF
303-347-6244

Moderator: *Chet Anderson
707-937-2263
707-937-3734

3:15p.m. - 3:40p.m.

Treatment of Perchlorate Contaminated
Waters Using Innovative Bioreactor
Bruce E. Logan, Ph.D.

San Gabriel Valley
Bob Bocock
626-812-5209

Pennsylvania State University
814-863-7908

3:40p.m. - 4:05p.m.

**Update On The Determination Of Trace Level
Perchlorate In Drinking Water And Ground
Water By Ion Chromatography**
P.E. Jackson:
Dionex Corporation

Lockheed Martin
Gail Rymer
805-381-1408

4:05p.m. - 4:30p.m.

**TREATABILITY of Perchlorate - Containing Waters
by Reverse Osmosis and nonofiltration**
Dr. Sun Lingo/Gary Amy/John Pellegrino
Yeomin/Jae Weon Cho
909-392-5273

Redlands
Mike Huffstedler
798-7698

4:30p.m. - 4:55p.m.

Remediation of Source Contamination
James R. Hunt
Professor of Civil and Environmental
Engineering, Director, Environmental
Engineering and Health Science Laboratory
Associate Director, UC Toxic Substance
Research and Teaching Program
UC Berkeley

Rancho Cordova
Larry Ladd
916-852-8188

4:55p.m. - 5:05p.m.

Q & A

Q & A

Day 2: Friday, March 19, 1999

8:00a.m. - 9:00a.m. Registration

8:30a.m. - 10:00a.m.

Treatment Research for Drinking Water

Moderator: Jeannie-Marie Bruno
MWD

Issues Facing Water Purveyors

Moderator: Steven Book
Drinking Water Program

909-392-5017

8:30a.m. - 8:55a.m.

**TREATABILITY of Perchlorate
in Groundwater Using Ion Exchange**
Dennis Clifford, Ph.D., P.E. DEE
University of Houston
713-743-4266

8:55a.m. -9:20a.m.

**Removal of Perchlorate and Bromide
in Conventional Ozone/GAC Systems**
Vernon L. Snoeyink, Ph.D.
University of Illinois at
Urbana-Champaign
217-333-4700

9:20a.m. - 9:50a.m.

**National Assessment of Perchlorate
Contamination Occurrence**
Hsiao-Chiu Wang
MWD
909-392-5089

9:50a.m. - 10:00a.m.

Q & A

10:00a.m. - 10:15a.m.

Break
Treatment Research for Drinking Water

Moderator: Ed Urbanski
513-569-7655

10:15a.m. - 10:40a.m.

Results of a Pilot Trial of the ISEP

CDHS
916-322-1553

MCL for Perchlorate
David Spath
916- 323-4344

Regulatory Impacts on Lake Mead
Brenda Pohlmann
Supervisor-Corrective Actions
Nevada Division of Environmental Protection
702-486-2857

Mike Meadows
Brazos River Authority
254-776-9648

Catherine McCracken
USEPA
702-258-3176

Carol Williams
Main San Gabriel Basin
Watermaster
626-815-1300

Q & A

Program Funding

Moderator : David Spath
916-323-4344

Grants, Superfunds, Loans, Federal

	<p>Countercurrent Ionic Separation System for the Removal of Perchlorate Nitrate, and Sulfate from Aqueous Streams Authors: Raman Venkatesh, Eve Cobes, Dale Jennings, Norman Wagner and Richard Sase</p>	<p>Kevin Mayer Associate Chief Superfund Site Cleanup Branch USEPA 415-744-2248</p>
10:40a.m. - 11:05a.m.	<p>Investigation of Methods for Perchlorate Destruction in Aqueous Waste Streams/First Award Fred S. Cannon, Ph.D. The Pennsylvania State University 814-863-8754</p>	<p>State of California/ Treasurer's Office Patricia A. Beal Administrator: Local Agency Investment Fund Pooled Money Investment Account Investment Specialist 916-653-3001</p>
11:05a.m. - 11:30a.m.	<p>Investigation of Methods for Perchlorate Perchlorate Destruction in Aqueous Waste Streams/ Second Award Thomas L. Theis Clarkson University 315-268-6529</p>	<p>AWWARF Deborah R. Brink Director of Research Management AWWA Research Foundation 303-347-6109</p>
11:30a.m. - 11:50	<p>Jim Hurley Tyndall AFB. FLA</p>	<p>SERDP/ESTCP Program Office HydroGeoLogic Jan Cool 703-696-2124</p>
11:50a.m. - 12:Noon	<p>Q & A</p>	<p>Q & A</p>
12:Noon - 1:30p.m.	<p>Luncheon Speaker :</p>	<p>Dick Rutan - Pilot of the Voyager Aircraft's Non-Stop and Unrefueled Flight Around the World</p>
1:30p.m. - 5:00p.m.	<p>Treatment Research for Drinking Water Moderator: Dave Rexing Southern Nevada Water Authority</p>	<p>Public Awareness Moderator: Jean Marie Burno MWD</p>

1:30p.m. - 1:55p.m.	The Purification of Groundwater Contaminated With VOCs, Perchlorate NDMA and 1,4 Dioxane with an Integrated Treatment Train Comprised of Air Stripping/GAC, Continuous Ion Exchange, and UV/Oxidation Authors: R.D. Samuel Stevens, Richard Lynch, Steven B. Johnson, J.T. Gardener.	Public Perception Keith Rogers Las Vegas Review Journal
1:55p.m.- 2:20p.m.	Toxicology and Risk Assessment Issues David R. Mattie Air Force Research Laboratory 937-255-3423	Legal Issues: Nossaman, Gutner, Knox & Elliott, LLP Frederick A. Fudacz Attorney 213-612-7823
2:20p.m. - 2:45p.m.	William T. Frankenburger Jr. University of California Riverside	Insurance
2:45p.m. - 3:00p.m.	Q & A	Q & A
3:00p.m. - 3:15p.m.	Break	
Treatment Research for Drinking Water		
	Moderator: Kevin Mayer	Moderator: Frank Blaha
3:15p.m. - 3:45p.m.	Treatment of NDMA in Drinking Water Using a Rayox Tower UV/Oxidation System Authors: Leith Bircher, Stephen Cater, Martin Crawford, Dan Dolan and Wayne Lem	Federal Interagency Workgroup Dan Rogers/Annie Jarabek
3:45p.m.-4:15p.m.	Case Studies: Removal of Nitrate From	Future Problems Facing Agencies Robert Martin East Valley Water District

Potable Water Using ISEP Continuous
Ion Exchange Systems
Authors: Charles Drewry, Dale Jennings
and Lynn Cerrito

909-787-9267

4:15p.m. - 4:45p.m.

Pilot Results from the JPL Field Trial of the ISEP
Countercurrent Ionic
Exchange System for Removal and Destruction
of Perchlorate and Nitrate from Contaminated
Groundwater Authors: Eve Cobes, Raman
Venkatesh, Dale Jennings, Norman Wagner
and Charles Buril

4:45p.m. - 5:00p.m.

Q & A

Q & A

CLOSE OF CONFERENCE